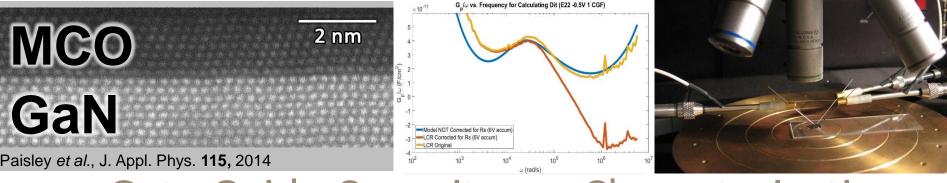
Exceptional service in the national interest





Gate Oxide Capacitance Characterization for Wide-bandgap Devices

NC STATE UNIVERSITY

Adam Morgan, Stan Atcitty, Elizabeth Paisley, Jon Ihlefeld 2016 DOE/OE Peer Review Conference



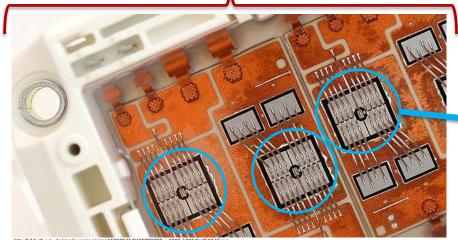


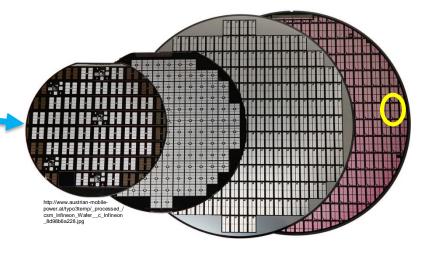




PCS - Power Conversion Systems

Deteriorated area





MCO 2 nm GaN

Defects

R. Ouaida et al., "Gate Oxide Degradation of SiC MOSFET in Switching Conditions," in IEEE Electron Device Letters, vol. 35, no. 12, pp. 1284-1286, Dec. 2014.

Area without defects

Paisley et al., J. Appl. Phys. 115, 2014